

KERN OBL-12 · 13 Compound Microscopes User Manual

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OPTICS

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Compound microscopes KERN OBL-12 · 13



LAB LINE

The flexible laboratory assistant with infinity optical system and fixed, pre-centred Koehler illumination

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Features

- The OBL series stands out through its infinity optical unit and is therefore ideally suited for all demanding transmitted illumination applications. The robust and ergonomic stand base guarantees safe and comfortable working
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen illumination (Philips)
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, without having to move the centre
- The large mechanical stage and its specimen holder holds up to two samples at the same time and is quick and easy to focus using a coaxial coarse and fine focusing knob on both sides
- A large selection of eyepieces, objectives and colour filters as well as a darkfield condenser, a simple polarising unit, different phase contrast kits through to HBO and LED fluorescence units are available to you as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list
- · Please find detailed information in the following model outfit list

Scope of application

 Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, oncology, entomology, vets, water analysis and breweries

Applications/Samples

• Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

Technical data

- · Infinity optical system
- Quadplex nosepiece

- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 6,7 kg

STANDARD



















OPTION













Model KE	Standard configuration						
RN	Tube	Eyepiece	Objective quali ty	Objectives	Illumination		
OBL 125*	Binocular	HWF 10x/0 20 mm	Infinity E-Plan		20 W Halogen (transmitted)		
OBL 127	Binocular	HWF 10x/0 20 mm	Infinity E-Plan	4x/10x/40x/100	3 W LED (transmitted)		
OBL 135*	Trinocular	HWF 10x/0 20 mm	Infinity E-Plan	x	20 W Halogen (transmitted)		
OBL 137	Trinocular	HWF 10x/0 20 mm	Infinity E-Plan		3 W LED (transmitted)		

* ONLY WHILE STOCKS LAST

		Order numb				
	OBL 125	OBL 135	OBL 127	OBL 137	er	
	HWF 10x/0 20 mm	11	11	11	11	OBB-A1404
Eyepieces (23, 2 mm)	WF 16x/0 13 mm	0	0	0	0	OBB-A1354
	HWF 10x/0 20 mm (with Pointer)	0	0	0	0	OBB-A1448
	4x/0,10 W.D. 12,1 mm	1	1	1	1	OBB-A1161
	10x/0,25 W.D. 2,1 mm	1	1	1	1	OBB-A1159
	40x/0,65 (spring-loaded) W.D. 0,58 mm	1	1	1	1	OBB-A1160

Infinity E-Plan objectives	100x/1,25 (oil) (spring-loaded) W.D. 0,19 m m	/	/	1	/	OBB-A1158		
	Plan 20x/0,40 (spring-loaded) W.D. 2,41 mm	0	0	0	0	OBB-Al250		
	Plan 60x/0,80 (spring-loaded) W.D. 0,33 mm	0	0	0	0	OBB-Al270		
	Plan 100x/1,15 (water) (spring-loaded) W.D. 0,18 mm	0	0	0	0	OBB-A1437		
Binocular tube	 Butterfly 30° inclined/360° rotatable Interpupillary distance 50 -75 mm (for infinity system) Diopter adjustment: One-sided 	√	0	1	0	OBB-A1578		
Trinocular tub e	Butterfly 30° inclined/360° rotatable Interpupillary distance 50 -75 mm Light distribution 20:80 (for infinity system) Diopter adjustment: One-sided							
Mechanical st age	 Stage size WxD 145x 130 mm Travel 76×52 mm Coaxial coarse and fine focusing knobs, sc ale: 2 pm Two slide holder 	/	1	1	1			
Condenser	Abbe N.A. 1,25 precentered (aperture diaphr agm)	/	1	1	1	OBB-A1103		
Darkfield cond enser	N.A. 0,85-0,91 (dry, paraboloid)	0	0	0	0	OBB-A1422		
	20 W Halogen spare bulb (transmitted)	1	1			OBB-A1370		
Illumination	3 W LED illumination system (transmitted) (n on-rechargeable)			1	1			
Polarising unit	Analyser/Polariser	0	0	0	0	OBB-Al277		
	Single unit with °3 PH-Plan objective 10x	0	0	0	0	OBB-Al215		
Phase contras	Single unit with °3 PH-Plan objective 20x	0	0	0	0	OBB-Al217		
t units (includin g PH- condenser and	Single unit with °3 PH-Plan objective 40x	0	0	0	0	OBB-Al219		
PH-slides)	Single unit with to PH-Plan objective 100x	0	0	0	0	OBB-Al213		
	When several magnification levels are required, please contact us							
Fluorescence	100 W HBO Epi Fluorescence unit, three-hol e slide (BIG) including centering objective	0	0	0	0	OBB-A1154		
unit	3 W LED Epi Fluorescence unit, three-hole s lide (BIG) including centering objective	0	0	0	0	OBB-A1157		

	Blue (built-in)	1	1	1	1	
Colour filters f	Green	0	0	0	0	OBB-A1188
illumination	Yellow	0	0	0	0	OBB-A1165
	Grey	0	0	0	0	OBB-A1183
C-Mount	0,5x (focus adjustable)		0		0	OBB-A1515
	lx		0		0	OBB-A1514

✓ Included with delivery O Option

Pictograms

				1	
360°	360° rotatable microscope head	FL-LED	Fluorescence illumination for compound microscopes With 3 W LED illumination an d filter	USB 3.0	USB 3.0 digital camera For direct transmitting of t he picture to a PC
MONO	Monocular Microscope For the inspection with on e eye	О РН	Phase contrast unit For a higher contrast	((ic) WIFI	WLAN data interface For transmitting of the pict ure to a mobile display device
BINO	Binocular Microscope For the inspection with bot h eyes	O F	Darkfield condenser/unit For a higher contrast due to i ndirect illumination	НОМІ	HDMI digital camera For direct transmitting of t he picture to a display device
TRINO	Trinocular Microscope For the inspection with bot h eyes and the additional option for the connection o f a camera	POLAR	Polarising unit To polarise the light	SOFTWARE	PC software To transfer the measurem ents from the device to a PC
ABBE	Abbe Condenser With high numerical apert ure for the concentration and the focusing of light	INFINITY	Infinity system Infinity corrected optical syste m	AUTO ATC	Automatic temperature compesation For measurements betwe en 10 °C and 30 °C

HAL	Halogen illumination For pictures bright and ric h in contrast	ZOOM	Zoom magnification For stereomicroscopes	å å å IP	Protection against dust and water splashes IPxx: The type of protection is s hown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2: 2013
£D_ LED	LED illumination Cold, energy-saving and e specially long-life illumination	AF	Auto-focus For automatic control of the focus level	BATT	Battery operation Ready for battery operatio n. The battery type is spe cified for each device.
<u>B</u>	Incident illumination For non-transparent objects	PARALLEL	Parallel optical system For stereomicroscopes, enabl es fatigue-proof working	RECHARGE	Battery operation rechar geable Prepared for a rechargeab le battery operation
Q TL	Transmitting illumination n For transparent objects	SCALE	Integrated scale In the eyepiece	230 V	Plug-in power supply 230V/50Hz in standard ve rsion for EU. On request GB, AUS or USA version.
S	Fluorescence illuminatio n For stereomicroscopes	SD	SD card For data storage	230 V	Integrated power supply unit Integrated in microscope. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
FL-HB0	Fluorescence illumination n for compound microscopes With 100 W mercury lamp and filter	USB 2.0	USB 2.0 digital camera For direct transmitting of the picture to a PC	1 DAY	Package shipment The time required to manu facture the product intern ally is shown in days in the pictogram.

Abbreviations

C-Mo unt	Adapter for the connection of a camera to a trinocular mic roscope	LWD	Long Working Distance	SWF	Super Wide Field (Field n umber at least Ø 23 mm for 10× ey epiece)
FPS	Frames per second	N.A.	Numerical Aperture	W.D.	Working Distance
H(S) WF	High (Super) Wide Field (Eyepiece with high eye point for wearer s of glasses)	SLR came ra	Single-Lens Reflex camera	WF	Wide Field (Field number up to Ø 22 mm for 10× eyepiec e)

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Documents / Resources



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